AVerMedia
www.averusa.com/surveillance

Integrator
Hybrid Windows Capture Cards

NV Series

NV6240E8 Hybrid Windows Capture Card

3 Year Warranty!

Model Number(s):

- NV6240E8 - Windows Solution

Key Points:

- Hybrid (Analog and IP)
- Supports 60+ brands of IP cameras
- Windows XP, Vista, Win 7 (all 32 bit)
- Wide screen support: (1440x900, 1680x1050, 1920x1200, 1920x1080)
- *D1 with real-time over 8 channels*
- Stack up to 16 channels
- Easy DVR & IP Camera support upgrades through USB flash drive
- Advanced alarm management
- Comprehensive remote access through iPhone, Blackberry and web

The AVerMedia NV6240E8 is an **8 channel hybrid video capture card** that combines D1 real-time recording rates, an easy-to-use interface and AVerMedia's award winning software. Featuring true PCI Express architecture, this card includes compatibility with over 60 brands of IP cameras, robust remote video access (iPhone and Blackberry approved) and is fully supported by AVerMedia's US based technical team.

Coupled with free ongoing software upgrades, exceptional image quality, seamless network integration and a 3 year warranty, the NV6240E8 ensures easy, efficient and effective security.

SYSTEM

- 352x240 (CIF), 640x480 (VGA), 720x240 (Half-D1) and 720x480 (D1) resolutions
- Supports 60+ IP camera brands
- Compatible with up to 5 MegaPixel IP camera(s) (check support list for integrated camera model numbers)
- IP and Analog camera Pan-Tilt-Zoom enabled
- Supports up to 1920 x 1200 wide screen resolutions
- Video compression: Software H.264 and MPEG4
- Uncomplicated system and/or IP camera support updates through USB drives
- Virtual keyboard built-in and support's UPS

CONFIGURATION

- Pre-schedule many system functionalities including recording, backup, reboot, alarm and relay controls as a one-time or recurring weekly task
- Save time on multiple system setups by simply exporting and importing system configuration settings

AVerMedia Information, Inc. 423 Dixon Landing Rd., Milpitas CA Tel: 408.263.3828 Fax: 408.263.8132

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CAPABILITIES

MONITORING

For environments that depend on live video, the NV6240E8 offers many features for fast and responsive event management:

- Video - 8 analog (BNC Connectors) and/or IP cameras
- Audio - 8 channel inputs and 1 channel output
- Spot Monitor - Analog AND IP video transmission; user can select any combination of channels to output with up to 1280x1024 resolution!
- Dual monitor outputs
- 4 sensors & relays and up to 128 more with addt'l E-I/O box
- E-maps (8) showcasing camera, sensor and relay positions
- Simultaneously view live video during playback
- Integrated Auto Gain Control (AGC) balances image noise
- View and record in total darkness with built-in "Night View" functionality EVEN for day-only cameras
- "Attention Please" feature helps operator performance

Live Display

- Award winning Graphical User Interface (GUI) with:
  - Advanced GUI mode for easy access to system tools
  - Compact GUI mode for maximum image display
- Channel Auto scan with 1, 4, 8, 9, 13 & 16 screen splits
- Digital zoom incorporated for greater detail in live video

Alarm/Notifications

The NV6240E8 is ready for real-time incident response by:

- Starting video recording on multiple cameras
- Sending footage to spot monitor
- Enabling camera PTZ tracking and enlarging triggered video
- Following sensor with relay protocols (e.g. locking gates etc.)
- Launching the triggered channel's corresponding Emap
- Sending emails, snapshots and files to FTP, SMS/MMS
- Making a phone call or playing customizable warning sounds
- Sending video to Central Management System
- Displaying standard operating protocols to ensure proper adherence to procedures by security personnel
- Including manual on screen alarm trigger for emergencies
- Alarms can be reset both locally and remotely

INTELLIGENCE

To reduce security staffing and/or to manage high-volume video, the NV6240E8 also provides intelligence that is triggered by:

- Motion Detection, sensor inputs and POS events
- Objects left or removed from monitored zones
- Video loss or HDD failure; initiates "Watchdog" function if needed to bring system back from faulty to normal operation
- Controlling false alarms by combining multiple alarm inputs to validate genuine events

RECORDING

Once the system is triggered and starts recording, it can continue to do so without time limitations. Additional features:

- Continuous, Motion, Event, or Audio recording
- Smart - Activity based escalation of recording fps (low - high)
- Video mask - prevent high activity regions from triggering motion based recording
- System will auto recycle storage space when disk is full
- Two types of de-interlace method: optimized for static scenes or dynamic scenes

FORENSICS

For rapid retrieval/export of pertinent data:

Search

- Defined parameter search by date, time, camera, area, event, and event log file
- AVerMedia patented Visual Search that visually breaks down video by day, hour, minute, 10 seconds and second
- Time search to scroll through by moments
- FaceFinder software - catalogs human faces from live video to facilitate quick searches based on facial recognition
- Easy retrieval and playback of footage by "Bookmarking" significant segments
- Advanced event log search by event, operation, POS, system and network activities

Playback

- Simultaneously view playback while recording and/or performing network functions.
- Built-in sensitive playback controls (including frame-by-frame)
- Digital zoom incorporated for greater detail in playback video

Backup

- Based on chosen system, easily export/backup to DVR-RW/CD-RW, flash memory, external HDD, NAS, SAN and RAID
- Export single images to BMP files or segments to AVI files
- Saved images are "Watermarked" to validate authenticity

POS INTEGRATION

- POS connection available on every channel along with iPOS function that allows transaction data searches and video playback right from the live monitoring screen
- Compatible with most commonly used POS systems
- To protect against employee tampering, system is integrated with a confidential key word filter
- POS keywords can be set to trigger alarms and notifications
- POS text location can be customized on video footage

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CAPABILITIES

REMOTE

Multicasting

- iDispatch - For high-traffic video broadcasting, the NV6240E8 will multicast video streams to drastically lower network, server and camera loads for effective remote viewing

Setup and configuration

- iSetup is bundled to make system changes remotely
- Remote backup capability is included with the NV6240E8

Viewing

From laptops, cells phones, PDAs and more, you can track video whenever and wherever

- Remote Access with DDNS function
  - **Web/Remote Computers:**
    Internet Explorer WebViewer (view Live video with 2-way audio)
    Remote Console (view Live/Recorded video and control PTZ, setup, E-maps, recording, playback, sensors/relays)
  - **Windows mobile devices:**
    SmartViewer (view Live video)
    PDAViewer (view Live/Recorded video, store multiple DVR log-ins, control PTZ, zoom and take video snapshots)
  - **Blackberry mobile devices:**
    iBBViewer (view Live video)
  - **iPhone mobile devices:**
    iViewer (view Live video)

Multiple Systems

- With CM3000 central management software, you have total remote command of up to 1000 remote systems from one central location
  - Monitor with E-maps, record and playback
  - Control sensors and relays
  - Setup and modify DVR configurations
  - 2-way audio

USER ACCESS

- Up to 256 user accounts with individually assigned passwords and user privileges
- User accounts can be set to activate or expire at specified dates

NV6240E8 Detailed Specifications

Unit				
Operating system		Windows XP / Vista 32bit / Win 7		
Compression		Software: H.246/MPEG4		
Interface		PCI Express 1X		
		Stacked:	**1 Card - 8 Total Chs**	**2 Cards - 16 Total Chs**
Video Inputs	Analog	BNC	8 Connectors	16 BNC Connectors
	IP	Data Streams	8 H.264/MPEG4/JPEG	16 H.264/MPEG4/JPEG
Video Out		TV Out - RCA x1		
Video Format	Analog	NTSC: 352x240 (CIF), 640x480 (VGA), 720x240 (Half-D1), 720x480 (D1)		
	IP	IP/Megapixel Camera Specific		
		Stacked:	**1 Card**	**2 Cards**
Recording Rates	Analog	CIF	240	480
		D1	240	160
	IP	Per camera specifications		
		Stacked:	**1 Card**	**2 Cards**
Audio		In/Out	8/1	16/1
Alarms/Relays		In/Out	4/4	8/8
Supported IP cameras (support IP PTZ, IP IO, & IP audio if IP cameras built-in)		AXIS, Panasonic, SONY, Arecont, Mobotix, BOSCH, IQinvision, JVC, TOSHIBA, VIVOTEK, ACTi, D-Link, PiXORD, PELCO, Apron, Lilin and more		
Browser/Remote Client		MS Internet Explorer 6+, Windows 2000, XP, VISTA,		

Software	
Interface	Graphical user Interface
Account Administration	Up to 256 accounts with configurable user privileges
Camera Administration	Add and configure all supported IP/Megapixel cameras through the GUI.
PTZ Control	Zoom-in/Zoom-out, Focus-in/Focus-out, Direction, Speed, Preset point, Autopan.
Playback Administration	Playback while recording or setup
	Play, rewind, fast-forward, frame-by-frame control
	Digitally zoom to specific regions on recorded video
	Export single frame to .jpg, export video clip to .DVR/.AVI/.MPEG
Motion Detection	Configurable to sense mass/motion; can partition off areas in monitoring regions from motion triggers
Event Recording	Schedule: Continuous, Smart, Motion, Alarm, Manual
Video Event Search	Visual Search, date/time, camera, event & log files
Advanced Event Log	Full event, operation, system & network activities log
Alarm Notifications	Launch or send E-map, relay, video capture, CM3000 or E-mail notification
E-map Display	Positions of cameras, sensors, relays and event status
iEnhance	Enhance video quality such as Brightness/Contrast/ Hue/ Saturation/ Sharpness/ Noise Reduction/De-interlace/ Gray Scale of recorded video
iStable	One-click fix for shaky video caused by camera movement (such as wind or vandalism)
Remote Management	
Central Management	CM3000 software - supports up to 1000 DVRs
Remote DVR connectivity	Remote Computers: Use WebViewer (MS Internet Explorer only) or Remote Console
	Windows Mobiles: Use SmartViewer or PDAViewer
	Blackberry Mobiles: Use iBBViewer
	iPhones Mobiles: Use iViewer
Dispatch Server	Balance NVR communication for added client access and greater data transfer speeds
DDNS	Allow remote clients to search dynamic servers without enquiring for server's IP address
Warranty	
3 Year Limited Parts and Labor	

NV Series Quick Comparison

4 CHANNELS

	NV3000	NV5000
PCI Slot	PCI Slot	PCI Slot
Video Input	4 Channels	4 Channels
Total IP camera Per Card	**1**	**4**
Compression Method	Software H.264, MPEG4, MJPEG	Software H.264, MPEG4, MJPEG
Audio Input	**1 Channel (optional)**	**4 Channels (optional)**
CIF Recording Rate FPS	**30 fps/4 CHs**	**120 fps/4 CHs**
D1 Recording Rate FPS	**12 fps/4 CHs**	**120 fps/4 CHs**
Alarms/Relays (In/Out)	4/**3**	4/**4**
Stacking Structure	Stack up to **4 NV3000s**	Stack up to **2 NV5000s**
Use of Extension Cards	**No**	**Yes (Max of 3)**
TV out	Yes	Yes
Video Management Software	Included	Included

8 CHANNELS

	NV6240E8
PCI Slot	PCI Express Slot
Video Input	8 Channels
Total IP camera Per Card	8
Compression Method	Software H.264, MPEG4
Audio Input	8 Channels
CIF Recording Rate FPS	240fps/8 CHs
D1 Recording Rate FPS	240fps/8 CHs
Alarms/Relays (In/Out)	4/4
Stacking Structure	Stack up to 2 NV6240E8
Use of Extension Cards	No
TV out	Yes
Video Management Software	Included

16 CHANNELS

	NV6240E16	NV6480E16	NV8416E4
PCI Slot	**PCI Express Slot**	**PCI Express Slot**	**PCI Express x 4 Slot**
Video Input	16 Channels	16 Channels	16 Channels
Total IP camera Per Card	16	16	16
Compression Method	Software H.264, MPEG4	Software H.264, MPEG4	Software H.264, MPEG4
Audio Input	16 Channels	16 Channels	16 Channels
CIF Recording Rate FPS	**240fps/16 CHs**	**480 fps/16 CHs**	**480 fps/16 CHs**
D1 Recording Rate FPS	**80fps/16 CHs**	**160 fps/16 CHs**	**480 fps/16 CHs**
Alarms/Relays (In/Out)	4/4	4/4	4/4
Stacking Structure	Stack up to 2 NV6240E16	Stack up to 2 NV6480E16	Stack up to 2 NV8416E4
Use of Extension Cards	No	No	No
TV out	Yes	Yes	Yes
Video Management Software	Included	Included	Included

NV6240E8 Hardware Recommendation List

Motherboard

Our products support most of the current Intel chipsets for motherboards. Intel 915, 945, 965, 975, P31, P35 chipset and NVIDIA nForce4 Ultra MCP, nVidia nForce 570 SLI and NVIDIA nForce4 SLI Intel chipset

Note: For better system performance and stability we highly recommend using CSA/ PCI-E Giga Ethernet infrastructure motherboards. For further information please refer to Intel's Website.

Below is a list of Motherboards that our validation labs have tested; however we do support other motherboards beyond the ones listed below

Intel Socket

Brand	Asus	Gigabyte	Epox	FOXCONN	MSI
915		GA-8I915G-MF	EP-5EPA+		
		GA-8I915G-Duo			
945	P5LD2	GA-8I945P-G			
	P5LD2-VM	GA-945PL-S3 (Rev 2.0)			
	P5PL2-E	GA-8I945PL-G			
955		GA-8I955X Royal			
965	P5B	GA-965P-DS3			
	P5B Deluxe/WiFi-AP	GA-965P-S3			
		GA-965P-DS3P (Rev 3.3)			
975		GA-G1975X-C			
P31		GA-P31-DS3L(Rev 1.0)			
P35	P5K SE	GA-P35-DS3 (Rev 1.0)		P35A-S	P35 NEO2-FR
	P5KR	GA-P35-DS3 (Rev 2.0)			
	P5KC	GA-P35-DS3P (Rev 2.0)			
		GA-P35-DS3R (Rev 2.0)			
P45		GA-EP45-DS3L			
X38	P5E				
X58	P6T Deluxe	GA-EX58-UD5 (Rev 1.0)			
NVIDIA nForce4 SLI Intel	P5ND2-SLI Deluxe-TAY				

AMD Socket

Brand	Shuttle XPC SN25P	Gigabyte	ASUS
NVIDIA nForce4 Ultra MCP	FN25		
nVidia nForce 570 SLI		GA-M57SLI-S4*	
NVIDIA nForceR 570 Ultra MCP			M2N-E

*** This AMD socket allow users to install two NV6000E cards on the motherboard and together the cards can support 32 channels.**

Special CPU recommendation:

To use 640 x 480 recording resolution and 30 fps, Core 2 Duo E6600 CPU is required.

System Requirements:

- **CPU:** Pentium 4 2.8 GHz or higher
- **OS:** Windows 7/XP/Vista/2000 - 32 bit
- **RAM:** 512MB or higher
- **HDD:** 120GB or higher
- **CD-RM/DVD-RM**
- **Graphic Card:** 32-bit high color SVGA graphics card with 128MB video memory and DirectDraw/YUV Rendering Capability
- **10/100 Base-T Ethernet card**
- **Sound card and speaker**

Note:
Based on Intel's suggestion, for all of Microsoft Windows XP Operating Systems, Hyper-Threading must be disabled in the system BIOS Setup program for our DVR products.

For the most stable surveillance DVR system, we strongly recommend NOT using VIA/SiS/ALi chipsets and SiS VGA chips with our products due to their severe limitation of the chipset design.

Please make sure you are using the standalone VGA card with 128 MB memory above instead of built-in onboard VGA card in order to ensure the working stability and performance of the NV/NX series software.

We highly recommend against using Samsung Hard Disk Drives for SA, XR and EXR DVR products.

*Hardware recommendations are the minimum required hardware specifications for running our systems and not a guarantee to achieve the best performance of our DVR systems. Hardware specifications required to achieve the best performance of our DVR systems are subjected to different system settings and operation conditions.

NV6240E8 Hardware Recommendation List (cont.)

Graphic Card

Our products support most of the current Graphic Chipset on the market today. Below is a list of Graphics Cards that our Validation Labs have tested; however, we do support beyond the hardware listed below. Graphic Cards tested:

ATI Chipset

Brand	Asus	Gigabyte
X300	ATI Radon x300se	
X600	ATI Radeon X600 Pro	
X700	ATI Radeon X700	
X1300	ATI Radeon x1300 Pro	
Radeon HD 2400 XT		GV-RX24T256HP/256MB/DDRIII
RADEON HD 2400PRO	EAH2400PRO HTP/256MB/DDR2	
Radeon HD 2600 Pro	GV-RX26P512H/512MB/DDRII	

Nvidia Chipset (Performance:Basic)

Brand	ASUS	Gigabyte	MSI
GeForce PCX 5750			PCX5750-TD128E
GeForce 6200 TC		GV-NX62TC256D8	
GeForce 6600		NX66128DP	
GeForce 6800		GV-NX68256D	
GeForce 7200GS	EN7200GS HTD/256MB/DDRII		

Nvidia Chipset (Performance:Advanced)

Brand	ASUS	Gigabyte	ELSA	LEADTEK
GeForce 8400GS	EN8400GS HTP/256MB/DDRII			PX8400GS TDH/256MB/DDRII
GeForce 8500 GT		GV-NX85T256H/ 256MB/DDR2 GV-NX85T256HP/ 256MB/DDRIII	ELSA GLADIAC 850GT 256B2 2DT RH	
GeForce 8600 GT	EN8600GT/2DHT /256M			
GeForce 9500 GT		GV-N95TOC-512H		

Support ATi:
Radeon X300 /X600 /X700 /X1300/ HD 2400XT / HD 2400PRO / HD 2600PRO

Support NVIDIA:
GeForce PCX 5750 / GeForce 6200 /GeForce 6600/ GeForce 6800 / GeForce 7200 / GeForce 8400GS / GeForce 8500GT

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NV6240E8 Hardware Recommendation List (cont.)

PTZ Camera (visit our website support/download page for a complete list)

Brand	Product Number
AmericanDynamics	all products
Canon	VC-C4R
CD55	all products
DiGiDome	DRX -502A (DOH-240)
DMP23-H2	DMP23-H2
DynaColor	All products
Eastel	all products
ELMO	PTC -200C
Fastrax II	HID-2404
JVC	TK-C676 / TK-C675
Lilin	PIH 717X / 7000 / 7600 / PIH 7622/ 7622DH / 7635DH
MD101	all products
MicroJack-P	all products
NiceCam	all products
Panasonic	WV-CS850 / WV-CW860 / WV-CS950 / CS850B / CW860A / WV-CZ352
Pelco	Pelco-D/ Pelco-P
Philps	TC8560, TC700
SamSung	SCC-641
Sony	15-CZ45-1 /EVI-D70P
Yoko	all products

USB to Serial Hubs (Could be compatible w/ POS Series, PTZ Camera, UPS Series)

Brand	Model	Capacity
MOXA	Uport 1410	

Raid System

Brand	Product Number
Stardom	SR3610-2S-SB2
AVerDigi	RA4000e

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PDA Basic requirement

Notice: This feature is only available on version 5.1 or above AP. For customers who are using 5.0 version of AP, please visit the Support/Download page to download and upgrade to the latest version of AP

1. CPU: Arm architecture, for example, Intel Xscale.
2. OS: MS Window Pocket PC 2002/2003 or Mobile 5 and above.
3. GPRS or WLAN module is recommended.

Windows Mobile Smartphone Basic Requirement

Notice: This feature is only available on version 5.7 or above AP. For customers who are using v.5.5, v5.1 or v5.0 version of AP please visit the Support/Download page to download and upgrade to the latest version of AP

1. CPU: Arm architecture, for example, Intel Xscale.
2. OS: Windows-base, Windows Mobile 2002/2003 for Smart Phone Edition or Windows Mobile version.
3. Network module such as WAP,GPRS,WLAN....etc is required .

Symbian Smartphone Basic Requirement

Notice: This feature is only available on version 7.1 or above AP. For customers who are using v5.7, v.5.5, v5.1 or v5.0 version of AP please visit the Support/Download page to download and upgrade to the latest version of AP

1. OS:Symbian Smartphone
2. The OS needs to support JAVA MIDP 2.0(JAVA2 ME)
3. Network module such as WAP, GPRS, WLAN, etc is required.